

Serial No.: 10/552,857

Response to Office Action mailed: January 29, 2009

Amendment Dated: March 30, 2009

Amendments to the specification:

Page 23, please amend Table 2 as follows:

TABLE 2

**List of primers used for sequencing of the full-length cDNAs of TrCHSa3,
TrCHSc, TrCHSf, TrCHSh, TrLARa, TrLARb and TrLARc**

gene name	clone ID	sequencing primer	primer sequence (5'>3')	SEQ ID NO
TrCHSa3	05wc1RsB06	05wc1RsB06.f1	AGGAGGCTGCAGTCAAGG	<u>17</u>
		05wc1RsB06.f2	TGCCTGAAATTGAGAAACC	<u>18</u>
		05wc1RsB06.f3	AAAGCTAGCCTTGAAGCC	<u>19</u>
TrCHSc	07wc1TsE12	07wc1TsE12.f1	TCGGACATAAATCATGTGG	<u>20</u>
		07wc1TsE12.f2	TTGGGTTGGAGAATAAGG	<u>21</u>
		07wc1TsE12.r1	TGGACATTTATTGGTTGC	<u>22</u>
		07wc1TsE12.r2	TATCATGTCTGGAAATGC	<u>23</u>
TrCHSf	07wc1UsD07	07wc1UsD07.f1	AGATTGCATCAAAGAATGG	<u>24</u>
		07wc1UsD07.r1	GGTCCAAAAGCCAATCC	<u>25</u>
TrCHSh	13wc2IsG04	13wc2IsG04.f1	TAAGACGAGACATAGTGG	<u>26</u>
		13wc2IsG04.r1	TATTCATTAAGCACATGC	<u>27</u>
TrLARa	05wc1CsA02	05wc1CsA02.f1	TCATTTCTGCAATAGGAGG	<u>28</u>
		05wc1CsA02.r1	ATCCACCTCAGGTGAACC	<u>29</u>
TrLARb	05wc3EsA03	05wc3EsA03.f1	AATAGGAGGCTCTGATGG	<u>30</u>
		05wc3EsA03.r1	ATCCACCTCAGGTGAACC	<u>31</u>
TrLARc	07wc1VsF06	07wc1VsF06.f1	AGGCTCTGATGGCTTGC	<u>32</u>
		07wc1VsF06.r1	ATCCACCTCAGGTGAACC	<u>33</u>

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Page 25, please amend Table 3 as follows:

TABLE 3

List of primers used to PCR-amplify the open reading frames

gene name	primer	primer sequence (5'→3')	SEQ ID NO
TrCHSa3	05wc1RsB06f	GAATTC TAGAAGATATGGTGAGTGTAGCTG	34
	05wc1RsB06r	GAATTC TAGAATCACACATCTTATATAGCC	35
TrCHSa3	05wc1RsB06fG	GGGGACAAGTTTGTACAAAAAAGCAGGCTCTAGAGATATGGTGAGTGTAGCTG	36
	05wc1RsB06rG	GGGGACCACTTTGTACAAGAAAGCTGGGTCTTAGAATCACACATCTTATATAGCC	37
TrCHSc	07wc1TsE12f	GAATTC TAGAAGAAGAAATATGGGAGACGAAGG	38
	07wc1TsE12r	GAATTC TAGAAGACCTTCATGCACACAAGTTCC	39
TrCHSf	07wc1UsD07f	GAATTC TAGATGATTCATTGTTTGTTCATAAC	40
	07wc1UsD07r	GAATTC TAGAACATATTCATCTTCCATATCAC	41
TrCHSh	13wc2IsG04f	GAATTC TAGATCCAAATTCCTCGTACCTCACC	42
	13wc2IsG04r	GAATTC TAGATAGTTCACATCTCTCGGCAGG	43
TrBANa	05wc2XsG02f	GGATCCTCTAGAGCACTAGTGTGTATAAGTTTCTTGG	44
	05wc2XsG02r	GGATCCTCTAGACCCCTTAGTCTTAAAATACTCG	45
TrLARA	05wc1CsA02fG	GGGGACAAGTTTGTACAAAAAAGCAGGCTCTAGAAAGCAAAGCAATGGCAGC	46
	05wc1CsA02rG	GGGGACCACTTTGTACAAGAAAGCTGGGTCTAGATCCACCTCAGGTGAACC	47
TrLARb	05wc3EsA03fG	GGGGACAAGTTTGTACAAAAAAGCAGGCTCTAGAAAGCAATGGCACCAGCAGC	48
	05wc3EsA03rG	GGGGACCACTTTGTACAAGAAAGCTGGGTCTAGATCCACCTCAGGTGAACC	49
TrLARc	07wc1VsF06fG	GGGGACAAGTTTGTACAAAAAAGCAGGCTCTAGATAAAGCAATGGCACCAGC	50
	07wc1VsF06rG	GGGGACCACTTTGTACAAGAAAGCTGGGTCTAGATCCACCTCAGGTGAACC	51

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Page 26, please amend lines 7 and 8 as follows:

forward primer 5'-CCACCATGTTTGAAATTTATTATGTGTTTTTTCCG-3' (SEQ ID NO: 52);

reverse primer 5'-TAATCCCGGGTAAGGGCAGCCCATACAAATGAAGC-3' (SEQ ID NO: 53).

Pages 27-28 please replace table 4 with a new table as follows:

TABLE 4

List of primers used to PCR-amplify plant selectable marker cassettes and the regulatory elements used to control the expression of TrCHSa3, TrCHSc, TrCHSf, TrCHSh, TrBANa, TrLARa, TrLARb and TrLARc genes

expression cassette	primer	primer sequence (5'>3')	SEQ ID NO
nos::nptII-nos	forward	ATAATAACCGGTTGATCATGAGCGGAGAATTAAGGG	54
	reverse	ATAATAGCGGCCGCTAGTAACATAGATGACACCGCG	55
35S::aacC1-35S	forward	AATAGCGGCCGCGATTTAGTACTGGATTTTGG	56
	reverse	AATAACCGGTACCCACGAAGGAGCATCGTGG	57
35S ⁺ ::rbcS	forward	ATAATAACCGGTGCCCGGGGATCTCCTTTGCC	58
	reverse	ATAATAGCGGCCGCATGCATGTTGTCAATCAATTGG	59
assu::tob	forward	TAATACCGGTAAATTTATTATGRGTTTTTTTCCG	60
	reverse	TAATGCGGCCGCTAAGGGCAGCCCATACAAATGAAGC	61

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Pages 31 please amend Table 5 as follows:

TABLE 5

List of primers used for Real-time PCR analysis of white clover plants transformed with chimeric white clover genes involved in condensed tannin biosynthesis

construct	primer 1 (forward), 5'→3'	primer 2 (reverse), 5'→3'	SEQ ID NOs
pPZP221TrCHSa3	CATTTCATTGGAGAGGACACGC	AACACGGTTTGGTGGATTTGC	<u>62 and 63</u>
pPZP221TrCHSc	TTGGAGAGGACACGCTGAAATC	ACAAGTTGGTGAGGGAATGCC	<u>64 and 65</u>
pPZP221TrCHSf	CATTTCATTGGAGAGGACACGC	TCGTTGCCTTTCCTGAGTAGG	<u>66 and 67</u>
pPZP221TrCHSh	TCATTTGGAGAGGACACGCTG	CGGTCACCATTTTTGTGTTGGAGG	<u>68 and 69</u>
pPZP221TrBANa	TTGGAGAGGACACGCTGAAATC	CAACAAAACCACTGCCACC	<u>70 and 71</u>
pPZP221TrLARa	ATGACGCACAATCCCACTATCC	AGCCTTAGAAGAGAGAAGAGGTCC	<u>72 and 73</u>
pPZP221TrLARb	ATGACGCACAATCCCACTATCC	AGCCTTAGAAGAGAGAAGAGGTCC	<u>74 and 75</u>
pPZP221TrLARc	ATGACGCACAATCCCACTATCC	AGCCTTAGAAGAGAGAAGAGGTCC	<u>76 and 77</u>